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Some ACCOUNT of the TRANSIT of VENUS, and ECLIPSE of the SUN, as observed at the LIZARD POINT, June 3d, 1769. By Mr. JOHN BRADLEY.

MR. MASKELYNE, the Astronomer Royal, who has drawn up this short account, mentions that having had some doubts that neither the latitude nor longitude of the LIZARD-POINT were duly fixed, “ he had proposed those doubts to the Board of Longitude, who being sensible of the importance of determining the position of a place of so much consequence in the British navigation, resolved that proper astronomical observations should be made at the LIZARD for that purpose; and the *Transit of Venus* appeared a convenient opportunity, itself affording one of the best means of determining the longitude of places; and the *Eclipse of the Sun* which was to happen the morning after, affording another of determining the same.

“ ACCORDINGLY Mr. JOHN BRADLEY, nephew of the late Dr. BRADLEY, and formerly his assistant at the Royal Observatory, was appointed to make these observation. The instruments which he was provided with, were an equal altitude and transit instrument in one, an astronomical quadrant, and a reflecting telescope of two feet focus, all made by Mr. BIRD; and an astronomical clock, with a gridiron pendulum, made by Mr. SHELTON.

“ MR. Bradley staid at the LIZARD 51 days, viz. from May 13th to July 3d, during which time he was lucky enough to make a great many useful observations; some of the principal of which were the following, viz.---

SEVERAL meridian altitudes of the sun and pole star; by which the *latitude* of LIZARD-POINT was determined to be $49^{\circ}. 57'. 30''$. N.

The Transit of VENUS and Eclipse of the SUN, viz.---

1769 Apparent time.

June 3d. 6^h. 50'. 7",4 External contact of VENUS and the SUN,
very exact the eye being fixed on the
place.

7. 8. 25. Internal contact; doubtful to 4 or 5",
a cloud having hid *Venus* so long;
and at the cloud's going off, 2" after
the time set down, a thread of light
appeared very distinct between the
circumferences of the Sun and Venus.

18. 14. 54. Begin. of the Eclipse of the Sun } Both
19. 57. 17 End of the Eclipse. } very good

" THESE observations were made with the 2 f. reflector,
and the magnifying power 120.

D. h. min. sec.

June 8. 9. 20. 14 Em. 1st sat. of Jupiter. Jupiter had
not been from under the clouds 10"
when he saw the satellite, yet he
reckons the observation good.

June 15. 11. 13. 46 Em. 1st. sat. A thin haze about Jupi-
ter, but the observation pretty good.
These emersions were observed with
the same telescope, but with the
magnifying power 100.

COMPARING the observation of the CONTACTS of *Venus* at
the LIZARD with his own at GREENWICH, making a small al-
lowance for the difference arising from the effect of parallax at
the two places, Mr. MASKELYNE makes the difference of
meridians of GREENWICH and the LIZARD---

By the external contact of VENUS	20'. 53".	} of time.
By the internal contact of ditto	21. 01	
The mean by the contacts	20. 57	

By the two emersions, making a small allowance for the difference of brightness of the telescopes, he makes the difference of meridians as follows, viz.

By the first emersion	-	-	-	-	21'. 07"
By the second emersion	-	-	-	-	21. 52
					<hr/>
The mean of these is	-	-	-	-	21. 29,5
The mean by the contacts	-	-	-	-	20. 57
					<hr/>
Mean of the two means	-	-	-	-	21. 13,25

BUT Mr. Maskelyne, till he has time to compare the other observations, fixes on 21'. 0" of time = $5^{\circ}. 15'$ of the equator, for the difference of longitude of the LIZARD west of GREENWICH.

THE above is taken from the nautical almanac for 1770; and it was thought might be a proper addition to the foregoing account of the Transit of Venus, at Greenwich, drawn up by the Astronomer Royal.

The Reader is desired to correct the following ERRATA in some of the foregoing Sheets :

- Pag. 53---for 4h. 26'. 31", in the col. of Apparent Time, *read* 5h. 26'. 31".
 Pag. 60, the sixth line from the bottom, for 2,3922, &c. *read* 2'.392375.
 Pag. 6 , for 17'',336. *read* 17'',356.
 Pag. 67, for 3'. 31" E. in the col. of longitude of Sav. House, *read* 0'. 31".W.
 Pag. 79, l. 25, for so is its Rad. S, 242'',936, *read* is to R. so is S, 242'',936.
 Pag. 80, l. 12, for her from the Earth, *read* her distance from the Earth.
 Pag. 81, l. 14, for et, *read* at; and line 26, for Sun, *read* Earth.